

KARTIK

DevOps Engineer | Cloud | Kubernetes | Multi-Cloud Infrastructure

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PROFESSIONAL SUMMARY

DevOps Engineer with 1+ year of hands-on experience designing and operating cloud-native infrastructure across AWS and Azure. Skilled in Kubernetes orchestration (EKS, AKS), Infrastructure as Code with Terraform and Bicep, and CI/CD automation using GitHub Actions and Azure DevOps. Delivered measurable impact in production environments — including an 80% reduction in infrastructure provisioning time, 40% faster incident response, and 20% reduction in monthly cloud spend. Passionate about system reliability, observability, and automating operational workflows in distributed systems.

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, RDS, S3, IAM, EKS, ECR), Azure (AKS, ACR, Azure Monitor)

Containers & Orchestration: Docker, Kubernetes, Helm, container lifecycle management

Infrastructure as Code: Terraform (AWS), Bicep (Azure), modular IaC design, reusable modules

CI/CD Tools: GitHub Actions, Azure DevOps Pipelines, automated release workflows

Monitoring & Logging: ELK Stack (Elasticsearch, Logstash, Kibana), Amazon CloudWatch, Azure Monitor

Scripting & Automation: Python, Bash, shell scripting

Databases: MySQL, PostgreSQL, MongoDB, DynamoDB

Operating Systems: Linux (Ubuntu, Amazon Linux), command-line administration

Version Control: Git, GitHub, Azure Repos, branching strategies

PROFESSIONAL EXPERIENCE

DevOps Engineer

Jul 2025 – Present

Quark Software Inc., Mohali, India

- Architected and operated a Kubernetes-based microservices platform of 20+ services across AWS EKS and Azure AKS using Helm charts, ensuring high availability and zero-downtime rolling deployments.
- Engineered multi-cloud Infrastructure as Code using Terraform (AWS) and Bicep (Azure), enabling reproducible environment provisioning and reducing setup time by ~80%.
- Developed Python-based automation tools for centralized log analysis and system monitoring on the ELK stack, reducing manual debugging effort and cutting incident response time by ~40%.
- Optimized AWS resource configuration across EC2, RDS, S3, and IAM — right-sizing compute, tuning database instances, and applying S3 lifecycle policies — reducing monthly cloud spend by 20%.
- Strengthened system resilience by implementing structured logging, proactive alerting, and centralized monitoring strategies across distributed services.
- Designed fault-tolerant and horizontally scalable systems with focus on observability, reliability, and automated recovery workflows.
- Collaborated with development, QA, and product teams to streamline deployment workflows and improve production stability.

DevOps Trainee

Jan 2025 – Jun 2025

Quark Software Inc., Mohali, India

- Containerized application services using Docker and deployed workloads on managed Kubernetes clusters (EKS, AKS), enabling consistent and reproducible environments across stages.
- Built reusable Terraform (AWS) and Bicep (Azure) modules for provisioning VPCs, compute resources, and Kubernetes infrastructure, reducing environment setup time by 90%.
- Authored Python automation scripts for cluster health monitoring and automated cleanup workflows, maintaining clean baseline environments across teams.
- Implemented end-to-end CI/CD pipelines using GitHub Actions and Azure DevOps, improving deployment reliability and eliminating manual intervention in release flows.

KEY PROJECTS

Kubernetes Multi-Cluster Management with Helm

Tech Stack: AWS EKS, Azure AKS, Helm, Kubernetes

- Orchestrated 20+ microservices across multi-cluster Kubernetes environments (EKS, AKS) using Helm, enabling standardized deployments and consistent version control.
- Reduced manual deployment effort by 90% by implementing automated release workflows, improving deployment reliability and environment parity.
- Designed Helm chart structure to support multiple environments (dev, staging, production) with environment-specific value overrides.

Multi-Cloud Infrastructure-as-Code Pipeline

Tech Stack: Terraform, Bicep, AWS (VPC, ECS, RDS, EKS), Azure AKS

- Built reusable Infrastructure-as-Code modules using Terraform (AWS) and Bicep (Azure) to provision networking, compute, and Kubernetes resources.
- Enabled one-click environment provisioning, reducing setup time by 95% and enforcing standardized infrastructure patterns across all environments.
- Documented module usage and version-controlled IaC templates for organization-wide adoption.

EDUCATION

Bachelor of Engineering — Computer Science

Chandigarh College of Engineering & Technology, Chandigarh

Aug 2021 – Jun 2025

GPA: 8.73 / 10.0

Intermediate (+2)

Govt. Model Senior Secondary School, MHC, Chandigarh

Apr 2019 – May 2021

96.2%

Matriculation (10th)

St. Anne's Convent School, Chandigarh

Apr 2018 – Mar 2019

98%

ACHIEVEMENTS

- **Winner — Innovative Product Design**, IPD-EXPO 2022, Chandigarh College of Engineering & Technology.
- **Research Paper Presented** at the International Conference on Smart Computing & Communication (ICSPN), Dubai 2023.

LANGUAGES

English • Hindi • Punjabi